

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A fuel cell device comprising:

a fuel cell cooled by antifreeze solution;

a water storage unit adapted to store water to be supplied to the fuel cell;

~~a first an~~ antifreeze circulation flow passage adapted to allow the antifreeze solution to be circulated from the fuel cell where the antifreeze solution cooled the fuel cell to the water storage unit; ~~the first antifreeze circulation flow passage including:~~
~~the fuel cell;~~

an antifreeze heater disposed in the ~~first~~ antifreeze circulation flow passage to heat the antifreeze solution; and

a hot medium flow passage disposed around and conforming, in a contacting relationship, to a water contact section on an outside of the water storage unit to allow the antifreeze solution, heated by the antifreeze heater, to flow around the outside of the water storage unit; and

~~a second antifreeze circulation flow passage to allow the antifreeze solution to be circulated, the second antifreeze circulation flow passage including:~~

~~the fuel cell;~~

~~the hot medium flow passage; and~~

~~a radiator disposed in the second antifreeze circulation flow passage adapted to radiate heat from the antifreeze solution.~~

2. (Previously Presented) The fuel cell device according to claim 1, further comprising:

a water pump adapted to draw water, stored in the water storage unit, to an outside;
and

a suction conduit heater section disposed around a periphery of a water suction conduit of the water pump to allow the heated antifreeze solution to flow.

3. (Previously Presented) The fuel cell device according to claim 1, further comprising:

an antifreeze rectification plate disposed in the hot medium flow passage to guide a flow of the antifreeze solution therealong.

4. (Previously Presented) The fuel cell device according to claim 1, wherein the hot medium flow passage is disposed along at least a portion of an inner wall of the water storage unit.

5. (Previously Presented) The fuel cell device according to claim 1, wherein the hot medium flow passage is formed in a plurality of flow passage components that are stacked and water tightly sealed, and the plurality of flow passage components form at least a portion of a side wall of the water storage unit.

6. (Original) The fuel cell device according to claim 4, wherein the hot medium flow passage is formed in a spiral shape.

7. (Original) The fuel cell device according to claim 1, wherein the hot medium flow passage has an antifreeze solution inlet, through which the antifreeze solution flows in, located at a higher position than an antifreeze solution outlet, through which the antifreeze solution flows out.

8. (Previously Presented) The fuel cell device according to claim 1, further comprising:

a switch-over unit adapted to expel the antifreeze solution from the hot medium flow passage to allow air to be admitted to the hot medium flow passage in place of the expelled antifreeze solution.

9. (Original) The fuel cell device according to claim 8, further comprising:

an antifreeze accommodating unit that, when the hot medium flow passage is admitted with air in place of the antifreeze solution, allows the air to expel the antifreeze solution such that the expelled antifreeze solution is accommodated.

10. (Original) The fuel cell device according to claim 8, wherein the air to be admitted to the hot medium flow passage in place of the antifreeze solution includes combustion gas resulting from a combustor disposed in the antifreeze heater.

11. (Previously Presented) The fuel cell device according to claim 8, further comprising an air storage unit storing air to be introduced into the hot medium flow passage in place of the antifreeze solution.

12. (Previously Presented) The fuel cell device according to claim 8, further comprising:

an antifreeze temperature detector adapted to detect the temperature of the antifreeze solution in the hot medium flow passage; wherein

when the temperature of the antifreeze solution is detected to fall in a value higher than 0°C and lower than α °C (α : heat capacity reference temperature of the antifreeze solution), the antifreeze temperature detector controls a hot medium change-over unit so as to allow the air to be admitted to the hot medium flow passage in place of the antifreeze solution.

13. (Previously Presented) The fuel cell device according to claim 1, further comprising:

a water temperature detector adapted to detect a water temperature in the water storage unit; and

a bypass unit adapted to bypass the hot medium flow passage; wherein

when the detected water temperature exceeds a preset value, the water temperature detector controls the bypass unit to allow the antifreeze solution to bypass the hot medium flow passage.

14. (Currently Amended) The fuel cell device according to claim 8, wherein the water storage unit includes a double-layer structure comprising ~~comprises~~ an inside tank component and an outside tank component, between which the hot medium flow passage is formed, and wherein a heat insulation member with a specific gravity greater than the air and less than the antifreeze solution is moveably received in the hot medium flow passage.

15. (Previously Presented) The fuel cell device according to claim 14, wherein the heat insulation member includes a plurality of members smaller in size than a flow sectional area of the hot medium flow passage formed between the inside tank component and the outside tank component.

16. (Previously Presented) The fuel cell device according to claim 1, wherein the antifreeze solution heated by the antifreeze heater heats the fuel cell and heats the water in the water storage unit while flowing through the hot medium flow passage.

17. (Currently Amended) A fuel cell device comprising:

a fuel cell cooled by antifreeze solution;

a water storing means for storing water to be supplied to the fuel cell;

first an antifreeze circulation means for circulating the antifreeze solution from the fuel cell where the antifreeze solution cooled the fuel cell to the water storing means;
~~the first antifreeze circulating means including:~~

~~the fuel cell;~~

antifreeze heating means for heating the antifreeze solution flowing through the first antifreeze circulation means; and

hot medium flow passage means disposed around and conforming, in a contacting relationship, to a water contact section on an outside of the water storing means to allow the antifreeze solution, heated by the antifreeze heating means, to flow around the outside of the water storing means-and

~~—a second antifreeze circulation means for circulating the antifreeze solution, the second antifreeze circulation means including:~~

~~the fuel cell;~~

~~the hot medium flow passage means; and~~

~~radiating means for radiating heat from the antifreeze solution flowing through the second antifreeze circulation means.~~

18. (Cancelled)

19. (Previously Presented) The fuel cell device according to claim 1, wherein the second antifreeze circulation flow passage branches away from the first antifreeze circulation flow passage.

20. (Previously Presented) The fuel cell device according to claim 17, wherein the second antifreeze circulation means branches away from the first antifreeze circulation means.

21. (Cancelled)

22. (Cancelled)

23. (New) The fuel cell device according to claim 1, further comprising a second antifreeze circulation flow passage to allow the antifreeze solution to be circulated, the second antifreeze circulation flow passage including:

the fuel cell;

the hot medium flow passage; and

a radiator disposed in the second antifreeze circulation flow passage adapted to radiate heat from the antifreeze solution, wherein

the antifreeze circulation flow passage also includes the fuel cell.

24. (New) The fuel cell device according to claim 17, further comprising a second antifreeze circulation means for circulating the antifreeze solution, the second antifreeze circulation means including:

the fuel cell;

the hot medium flow passage means; and

radiating means for radiating heat from the antifreeze solution flowing through the second antifreeze circulation means, wherein

the antifreeze circulating means also includes the fuel cell.